

Title (en)
Roll test bench for vehicles

Title (de)
Rollenprüfstand für Kraftfahrzeuge

Title (fr)
Banc d'essai à rouleaux pour véhicules

Publication
EP 1039282 B2 20101222 (DE)

Application
EP 00100147 A 20000110

Priority
DE 19900620 A 19990111

Abstract (en)
[origin: US6457352B1] The subject matter of the invention is a rolldynamometer for motor vehicles comprising at least one running roll or drum (9) for one wheel (2) of one axis of the vehicle (1) to be examined, respectively, at least one electric motor (9) for directly driving and slowing down the running rolls (3), the stator housing (9a) of said electric motor (9) being borne in a support frame (6) in a pendulum fashion and supported on said support frame via force meters (20), and a control unit to which a running simulator for adjusting specific vehicle data and for simulating selected running conditions is allocated. For increasing the accuracy of the measurements, according to the invention, the stator housing (9a) of the driving motor (9) is borne in a lubrication oil free bearing arrangement in the support frame (6).

IPC 8 full level
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CPC (source: EP US)
G01M 17/0072 (2013.01 - EP US); **G01M 17/0074** (2013.01 - EP US)

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Opponent :
EP 0697585 A2 19960221 - AVL VERBRENNUNGSKRAFT MESSTECH [AT]

Cited by
DE102017221963A1; DE102010007338A1; EP1283415A3; CN107782483A; CN111537124A; DE102018112940A1; DE102013017447A1; DE102013017447B4; DE202023000247U1; WO2020079275A1; DE102018217965A1; DE102023000341A1; EP3872474A1; DE102020202512A1

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